

**UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE**

***MLRA REGION 11
Indianapolis, Indiana 46278***

**FIRST AMENDMENT
TO THE
APRIL 1979 CLASSIFICATION AND CORRELATION
OF THE SOILS OF
DEARBORN AND OHIO COUNTIES, INDIANA**

OCTOBER 2006

This amendment results from digitizing the Soil Survey data for Dearborn and Ohio Counties, the update of the NASIS database, and conforming to the Keys to Soil Taxonomy, 9th Edition, 2003. Note that the two counties will be digitized individually and not as a joint project.

AMENDMENT NO. 1

Pages 2 to 6 – Changes: Change the following map unit name-

<u>Map Symbol</u>	<u>Approved name (1979)</u>	<u>Approved Name - Amended (2006)</u>
Ch	Chagrin silt loam	Chagrin silt loam, frequently flooded
De	Dearborn silt loam	Dearborn silt loam, frequently flooded
Df	Dearborn flaggy loam	Dearborn channery loam, frequently flooded
EdF	Eden flaggy silty clay loam, 25 to 50 percent slopes	Eden flaggy silty clay, 25 to 50 percent slopes
Hu	Huntington silt loam	Huntington silt loam, frequently flooded
Ju	Jules silt loam	Jules silt loam, frequently flooded
Ne	Newark silt loam	Newark silt loam, frequently flooded
Or	Orrville silt loam	Orrville silt loam, frequently flooded
PaD2	Pate silt loam, 12 to 18 percent slopes, eroded	Pate silty clay loam, 12 to 18 percent slopes, eroded
PaE2	Pate silt loam, 18 to 25 percent slopes, eroded	Pate silty clay loam, 18 to 25 percent slopes, eroded
Ra	Rahm silt loam	Rahm silt loam, occasionally flooded
St	Stonelick sandy loam	Stonelick sandy loam, frequently flooded

Page 6 – Additions to the Soil Correlation Legend: Add the following map unit-

<u>Field symbols</u>	<u>Field map unit name</u>	<u>Publication symbol</u>	<u>Approved map unit name</u>
Du	Dumps	Du	Dumps
Omz	Orthents, earthen dam	Omz	Orthents, earthen dam
W	Water	W	Water
Water	Water	W	Water

Note that map units Du, HcG, MaF2, Omz and RxB are only used in Dearborn County.

Pages 9 to 12—Replace the Conventional and Special Symbols Legend from the 1979 Correlation, with the attached Indiana Official 37As' for Compilation, Digitizing, and DMF, Revised June 30, 2004.

Only the following standard landform and miscellaneous surface features will be shown on the legend and placed on the digitized soil maps for Dearborn County:

<u>Feature</u>	<u>Name</u>	<u>Description</u>
ESO	Escarpment, nonbedrock	A relatively continuous and steep slope or cliff, which generally is produced by erosion but can be produced by faulting, that breaks the continuity of more gently sloping land surfaces. Exposed earthy material is nonsoil or very shallow soil.
GPI	Gravel pit	An open excavation from which soil and underlying material have been removed and used, without crushing, as a source of sand or gravel. Typically 0.2 to 2 acres.
GRA	Gravelly spot	A spot where the surface layer has more than 35 percent, by volume, rock fragments that are mostly less than 3 inches in diameter in an area with less than 15 percent fragments. Typically 0.2 to 2 acres.
GUL	Gully	A small channel with steep sides cut by running water through which water ordinarily runs only after a rain, or after ice or snow melts. It generally is an obstacle to wheeled vehicles and is too deep to be obliterated by ordinary tillage.
LVS	Levee	An embankment that confines or controls water, especially one built along the banks of a river to prevent overflow of lowlands. Levees built according to COE standards.
ERO	Severely eroded spot	An area where on the average 75 percent or more of the original surface layer has been lost because of accelerated erosion. Not used in map units that are named severely eroded, very severely eroded, or gullied. Typically 0.2 to 2 acres.
SAN	Sandy spot	A spot where the surface layer is loamy fine sand or coarser in areas where the surface layer of the named soils in the surrounding map unit is very fine sandy loam or finer. Typically 0.2 to 2 acres.
SLP	Short, steep slope	Narrow soil area that has slopes that are at least two slope classes steeper than the slope class of the surrounding map unit.
WET	Wet spot	A somewhat poorly drained to very poorly drained area that is at least two drainage classes wetter than the named soils in the surrounding map unit. Typically 0.2 to 2 acres.

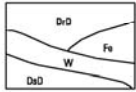
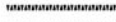
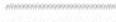
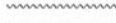













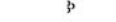

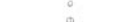




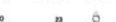
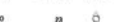














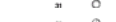
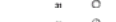


























Only the following standard landform and miscellaneous surface features will be shown on the legend and placed on the digitized soil maps for Ohio County:

<u>Feature</u>	<u>Name</u>	<u>Description</u>
ESO	Escarpment, nonbedrock	A relatively continuous and steep slope or cliff, which generally is produced by erosion but can be produced by faulting, that breaks the continuity of more gently sloping land surfaces. Exposed earthy material is nonsoil or very shallow soil.
GUL	Gully	A small channel with steep sides cut by running water through which water ordinarily runs only after a rain, or after ice or snow melts. It generally is an obstacle to wheeled vehicles and is too deep to be obliterated by ordinary tillage.
ERO	Severely eroded spot	An area where on the average 75 percent or more of the original surface layer has been lost because of accelerated erosion. Not used in map units that are named severely eroded, very severely eroded, or gullied. Typically 0.2 to 2 acres.
SLP	Short, steep slope	Narrow soil area that has slopes that are at least two slope classes steeper than the slope class of the surrounding map unit.
WET	Wet spot	A somewhat poorly drained to very poorly drained area that is at least two drainage classes wetter than the named soils in the surrounding map unit. Typically 0.2 to 2 acres.

Only the following ad hoc features will be shown on the legend and placed on the digitized soil maps for both Dearborn and Ohio Counties:

<u>Label</u>	<u>Symbol ID</u>	<u>Name</u>	<u>Description</u>
UWT	44	Unclassified water	Small, natural or man-made lake, pond, or pit that contains water, of an unspecified nature, most of the year. Typically 0.2 to 2 acres.

FEATURE AND SYMBOL LEGEND FOR SOIL SURVEY

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
SOIL SURVEY FEATURES		CULTURAL FEATURES (Optional)		HYDROGRAPHIC FEATURES (Optional)	
SOIL DELINEATIONS AND LABELS		BOUNDARIES		Drainage end (indicates direction of flow)	
		National, state or province		Unclassified stream	
STANDARD LANDFORM AND MORPHOLOGICAL SURFACE FEATURES		County or parish			
Bedrock escarpment		Minor civil division			
Nonbedrock escarpment		Reservation (Military)			
Gully		Land grant (Optional)			
Levee		Field sheet matchline and headline			
Short steep slope		Public Land Survey System Section Corner Tics			
Blowout		GEOGRAPHIC COORDINATE TICK			
Borrow pit		ROAD EMBLEMS			
Clay spot		Interstate			
Closed depression		Federal			
Gravel pit		State			
Gravelly spot		LOCATED OBJECTS			
Landfill		Airport (Label only)		Davis Airport or Airstrip	
Marsh or swamp					
Mine or quarry					
Rock outcrop					
Sandy spot					
Severely eroded spot					
Sinkhole					
Slide or slip					
Spoil area					
Stony spot					
Very stony spot					
Well spot					
AD HOC FEATURES (Describe on back)					
LABEL	SYMBOL ID	SYMBOL	LABEL	SYMBOL ID	SYMBOL
DCS	1		CRD	23	
DKS	2		WIA	24	
OVW	3		CGR	25	
VWS	4		HLL	26	
EAS	5		SID	27	
WAS	6		SID	28	
SAS	7		SID	29	
CAP	8		MUC	30	
CAL	9			31	
SLR	10			32	
DUM	11			33	
BRV	12			34	
DRW	13		WHL	35	
BRD	14			36	
GBR	15			37	
SSR	16		SAM	38	
LGR	17			39	
WOP	18		VSE	40	
SSR	19			41	
COB	20			42	
CNS	21			43	
FES	22		DNT	44	

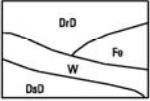


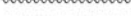


































































Soil Survey Area: OHIO COUNTY

State: Indiana

FEATURE AND SYMBOL LEGEND FOR SOIL SURVEY

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

Date: AUGUST 2005

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
SOIL SURVEY FEATURES		CULTURAL FEATURES (Optional)		HYDROGRAPHIC FEATURES (Optional)	
SOIL DELINEATIONS AND LABELS		BOUNDARIES		Drainage end (indicates direction of flow)	
		National, state or province		Unclassified stream	
STANDARD LANDFORM AND MISCELLANEOUS SURFACE FEATURES		County or parish			
Bedrock escarpment		Minor civil division			
Nonbedrock escarpment		Reservation (Military)			
Gully		Land grant (Optional)			
Levee		Field sheet matchline and neatline			
Short steep slope		Public Land Survey System Section Corner Tics			
Blowout					
Borrow pit		GEOGRAPHIC COORDINATE TICK			
Clay spot					
Closed depression		ROAD EMBLEMS			
Gravel pit		Interstate			
Gravelly spot					
Landfill		Federal			
Marsh or swamp					
Mine or quarry		State			
Rock outcrop					
Sandy spot		LOCATED OBJECTS			
Severely eroded spot		Airport (Label only)		Davis Airport or Airstrip	
Sinkhole					
Slide or slip					
Spoil area					
Stony spot					
Very stony spot					
Wet spot					
AD HOC FEATURES (Describe on back)					
LABEL	SYMBOL ID	SYMBOL	LABEL	SYMBOL ID	SYMBOL
DCS	1		CHO	23	
DKS	2		WTA	24	
OVS	3		COM	25	
VWS	4		HEL	26	
EAS	5			27	
MAS	6		STD	28	
SAS	7			29	
CAF	8		WUC	30	
CAL	9			31	
SLR	10			32	
DUM	11			33	
BRV	12			34	
BRW	13		WRL	35	
BRD	14			36	
OSR	15			37	
SSR	16		SAM	38	
LSR	17			39	
WDP	18		VSE	40	
SDR	19			41	
COB	20			42	
CWS	21			43	
FES	22		UNT	44	

Pages 17-18 – Replace the Classification of the Soils table with the following:
Dearborn and Ohio Counties, Indiana
Taxonomic Classification of the Soils
(An asterisk in the first column indicates a taxadjunct to the series.)

Soil name	Family or higher taxonomic class
Avonburg-----	Fine-silty, mixed, active, mesic Aeric Fragic Glossaqualfs
Bartle-----	Fine-silty, mixed, active, mesic Aeric Fragiaqualfs
Bonnell-----	Fine, mixed, active, mesic Typic Hapludalfs
Carmel-----	Fine, vermiculitic, mesic ChromicVertic Hapludalfs
Chagrin-----	Fine-loamy, mixed, active, mesic Dystric Fluventic Eutrudepts
Cincinnati-----	Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs
Clermont-----	Fine-silty, mixed, active, mesic Fragic Glossaqualfs
Dearborn-----	Loamy-skeletal, mixed, superactive, mesic Fluventic Hapludolls
Eden-----	Fine, mixed, active, mesic Typic Hapludalfs
Elkinsville-----	Fine-silty, mixed, active, mesic Ultic Hapludalfs
Fincastle-----	Fine-silty, mixed, superactive, mesic Aeric Epiaqualfs
Fox-----	Fine-loamy over sandy or sandy-skeletal, mixed, superactive, mesic Typic Hapludalfs
Hennepin-----	Fine-loamy, mixed, active, mesic Typic Eutrudepts
Huntington-----	Fine-silty, mixed, active, mesic Fluventic Hapludolls
Jules-----	Coarse-silty, mixed, superactive, calcareous, mesic Typic Udifluvents
Markland-----	Fine, mixed, active, mesic Typic Hapludalfs
*Markland-----	Fine, mixed, active, mesic Oxyaquic Hapludalfs
Newark-----	Fine-silty, mixed, active, nonacid, mesic Fluventic Endoaquepts
Ockley-----	Fine-loamy, mixed, active, mesic Typic Hapludalfs
*Orrville-----	Coarse-loamy, mixed, active, nonacid, mesic Aeric Endoaquepts
Orthents-----	Orthents
Pate-----	Fine, illitic, mesic Chromic Vertic Hapludalfs
Rahm-----	Fine-silty, mixed, active, nonacid, mesic Fluvaquentic Endoaquepts
Rodman-----	Sandy-skeletal, mixed, mesic Typic Hapludolls
*Rossmoyne-----	Fine-silty, mixed, active, mesic Aquic Fragiudalfs
Russell-----	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Stonelick-----	Coarse-loamy, mixed, superactive, calcareous, mesic Typic Udifluvents
Switzerland-----	Fine-silty over clayey, mixed, superactive, mesic Oxyaquic Hapludalfs
Udorthents, loamy---	Udorthents
Weisburg-----	Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs
*Wheeling-----	Fine-silty, mixed, active, mesic Ultic Hapludalfs

*Markland taxadjunct is for map unit MaB2

DEARBORN AND OHIO COUNTIES, INDIANA AMENDMENT NO. 1

Approval Signatures and Date

TRAVIS NEELY
State Soil Scientist/MLRA Leader
Indianapolis, Indiana

Date

WILLIAM H. CRADDOCK
State Soil Scientist/MLRA Leader
Lexington, Kentucky

Date

JANE E. HARDISTY
State Conservationist
Indianapolis, Indiana

Date